

JOB PERFORMANCE MEASURE (JPM)

TASK CODE: CB0-011

TASK: Calibrate a portable alpha contamination detection instrument

TRAINEE: _____

SSN: _____

REFERENCES:

- 1- WP12-HP1220, Contamination Detection Instrumentation

TERMINAL OBJECTIVE: Given that a portable alpha contamination detection instrument requires calibration, calibrate the instrument IAW WP12-HP1220

CONSEQUENCES OF INADEQUATE PERFORMANCE (ABNORMAL CONDITIONS):

- 1- Improper survey results

HAZARDS (PERSONNEL/EQUIPMENT SAFETY):

- 1- Electrical hazard

PRE-REQUISITE TRAINING / TASK COMPLETION:

- 1- CL 1.01 through CL 1.09, CL 1.13
- 2- CL 2.08, CL 2.17
- 3- CF0-109-JP, Operate a portable alpha contamination detection instrument
- 4- CF0-156-JP, Control a radioactive source

TOOLS/EQUIPMENT (MATERIALS REQUIRED):

- | | |
|---|----------------------|
| 1- Alpha contamination detection instrument | 6- Stopwatch |
| 2- Procedure WP12-HP1220 | 7- C-cell batteries |
| 3- Calibration data sheet | 8- Small screwdriver |
| 4- DVM with high voltage probe | 9- Calculator |
| 5- Pulse generator MP1 or MP2 | 10- Graph paper |

Instructions to Trainee: You shall acquire the necessary references and equipment, and complete all required documentation. Knowledge requirements shall be completed with 80% or greater accuracy. Critical step performance shall be completed with 100% accuracy.

Instructions to Evaluator: The trainee is to perform the terminal objective, without assistance, on the job site. Provide clarification of requirements if requested by trainee. You are encouraged to ask relevant questions to verify trainee understanding. If a trainee fails this JPM, clearly document the reason for failure and forward to the trainee's manager. Successful completion of this JPM shall be recorded on the trainee's certification card.

KNOWLEDGE REQUIREMENTS:

Ref.	Knowledge requirement	P/F
1	State the frequency of calibration for a portable alpha contamination detection instrument	
1	State your actions if the portable alpha contamination detection instrument fails the calibration	

PERFORMANCE REQUIREMENTS:

Ref.	CRITICAL STEPS	P/F
1	Change the instrument batteries, if required	
1	Perform a audio check	
1	Perform the "as found" reproducibility check	
1	Perform the zero check	
1	Perform the geotropism check	
1	Perform the power supply check	
1	Perform an "as left" linearity check	
1	Perform a high voltage plateau	
1	Determine the instrument efficiency	
1	Perform the "as left" reproducibility check	
1	Perform the operability check reference reading	
1	Complete the calibration data sheet	

FINAL EVALUATION:

PASS

FAIL

COMMENTS:

EVALUATOR SIGNATURE:

DATE:

STUDENT SIGNATURE:

DATE:

MANAGER SIGNATURE: _____

DATE: _____